

Approved For Release 2003/05/05 : CIA-RDP78T05161A000700010071-4

Disapproved Port Release 2003/05/05 200 2000	RECO COPY	-	<u> </u>	COPY NO.	PUB. DATE		LOCATION	 		MASTI	ER	DATE RECEIVED	LOCATION		
COPIES O 7-72 COPIES O O O O O O O O O				DISAPPTON	øed⊅Fofr(Rel	eas	e 2003/0	05/05 :	C1 %	<u>∜</u> RDF	78T0	D5161200700010071-	4 MAXIMUM	10	
COPIES		-)	7-72			DATE	·	COPI	ES DE	STROY	ED .			
DATE RECEIVED OR ISSUED NUMBER OF COPIES DATE RECEIVED OR ISSUED REC'D ISS'D BAL MO. DAY VR. RECEIVED OR ISSUED REC'D IS				DATE			DATE								
## RECEIVED OR ISSUED ### REC'D ISS'D BAL MO. DAY YR. RECEIVED OR ISSUED ### REC'D ISS'D BAL MO. DAY YR. RECEIVED OR ISSUED ### REC'D ISS'D BAL MO. DAY YR. RECEIVED OR ISSUED ### REC'D ISS'D BAL MO. DAY YR. RECEIVED OR ISSUED ### REC'D ISS'D BAL MO. DAY YR. RECEIVED OR ISSUED ### REC'D ISS'D BAL MO. DAY YR. RECEIVED OR ISSUED ### REC'D ISS'D BAL MO. DAY YR. DAY YR				DATE	MASTER		DATE								
8 12 68 Dist Unit#41-50 10 10 10	D	ATE				AUR	BER OF C	OPIES		DATE		DECELUED OF LOCKED	NUMB	ER OF C	COPIES
3 9 73 Decd # 411-50 0 W K &	мо.	DAY	YR.	RECEIVED OR	ISSUED	REC	'D ISS'D	BAL	мо.	DAY	YR.	RECEIVED OR ISSUED	REC'D	ISS'D	BAL
3 9 73 Decd # 411-50 0 W K &	8	12	68	Dist Unit#41	- 50	مىل		10							
Approved For Release 2003/05/05 : CIA-RDP78T05161A000700010071-4 TITLE _NPTC	59	Gj.		Dest to Hi	1-50			0	W	1	6				
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION											Ů				
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION		Ì													
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION															
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION									 						
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION					·	-									
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION															
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION														ļ	
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION		\dashv							<u> </u>					-	-
Approved For Release 2003/05/05 · CIA-RDP78T05161A000700010071-4 TITLE NOTC MAR. 1966 SEC. CLASS. LOCATION	\dashv					_	-		<u> </u>	<u> </u>					
TITLE NRTC MAR. 1966 SEC. CLASS. LOCATION									ļ	ļ				 	
TITLE NRTC MAR. 1966 SEC. CLASS. LOCATION		[Approv	ed For Rel	eas	e 2003/0	5/05	LCIA	RDF	78T	05161A000700010071-	4		
	717L X1	E N	RIC						SEC	CLAS	ss.	LOCATION			25\

P5X1 Approved For Release 2003/05/05 : CIA-RDP78T05161A000700010071-4

Approved For Release 2003/05/05 PCTA-RDP78T05161A000700010071-4

CLA/PIR-07077

25)

STUDY OF SELECTED KEYHOLE

IMAGERY OF SOVIET "N" CLASS SSN

CIA IMAGERY ANALYSIS DIVISION

	CIA/PIR-67077
CIA IMAGERY ANALYSIS DIVISION	
STUDY OF SELECTED KEYHOLE IMAGERY OF SOVIET "N" CLASS S	SSN
SUMMARY	
An analysis of selected photography has attempt to locate two Soviet "N" Class SSN on the sin length by approximately 20 feet and to determine Class SSN observed in a floating dock on Severodvinsk has been cut in two.	same frame which differ

possibly cut in two.

Approved For Release 2003/05/05 : CIA-RDP78T05161A000700010071-4	
CIA/PIR-67077	
CIA IMAGERY ANALYSIS DIVISION	
ANALYSIS	
I. Lengths of "N" Class SSN at Severodvinsk and Litsa Bay	
Re-analysis of selected photography of Severodvinsk Shipyard 402, Severodvinsk, USSR (64 35N-039 50E) and Litsa Bay Submarine Base, Litsa Bay, USSR (69 26N-032 24E) has failed to reveal firm evidence of significant differences in the waterline lengths of "N" Class SSN.	
Litsa Bay	
End-points of 4 "N" Class SSN observed at Litsa Bay on could not be determined with sufficient accuracy to provide a basis for a meaningful comparison of their waterline lengths. An attempt to obtain more positive end-point definition through the use of isodensity traces proved inconclusive due to a lack of vessel/water contrast.	
Severodvinsk	
Two submarines observed on alongside the Nuclear Submarine Special Support Facility Quay, Yagry Island, Severodvinsk, were originally thought to have possibly been two "N" Class SSN of significantly differing lengths. Analysis of a sub-	
sequent excellent quality revealed that an "E-II" Class SSGN and an "N" Class SSN occupied berthing positions identical to those utilized by the two submarines in Similarities of position, topside detail,	
and hull framework indicate that the submarines observed or at Yagry Island are identical to the "E" and the "N" Class observed alongside this quay later. The waterline lengths of the	
2 "N" Class submarines observed berthed alongside quays at Severodvinsk on were approximately respectively. The visible length of an "N" Class SSN observed in a floating dock at	
Severodvinsk on was approximately	
II. Analysis of a Probable "N" Class SSN in a Floating Dock, Severodvinsk, USSR,	
Analysis of this submarine reveals the presence of a dark area abaft the after edge of the possible sail. From stereoscopic viewing alone, this dark imagery could not be identified as representing either a possible shadow (although no source of such a shadow was evident), a dark substance	
on the hull, or a break in the hull. However, analysis of isodensity traces of each of the two frames containing this imagery revealed that the structure representing the hull of the submarine (on the trace) appeared	

Approved For Release 7003/05/205/2014-RDP78T05161A000700010071-4

25)

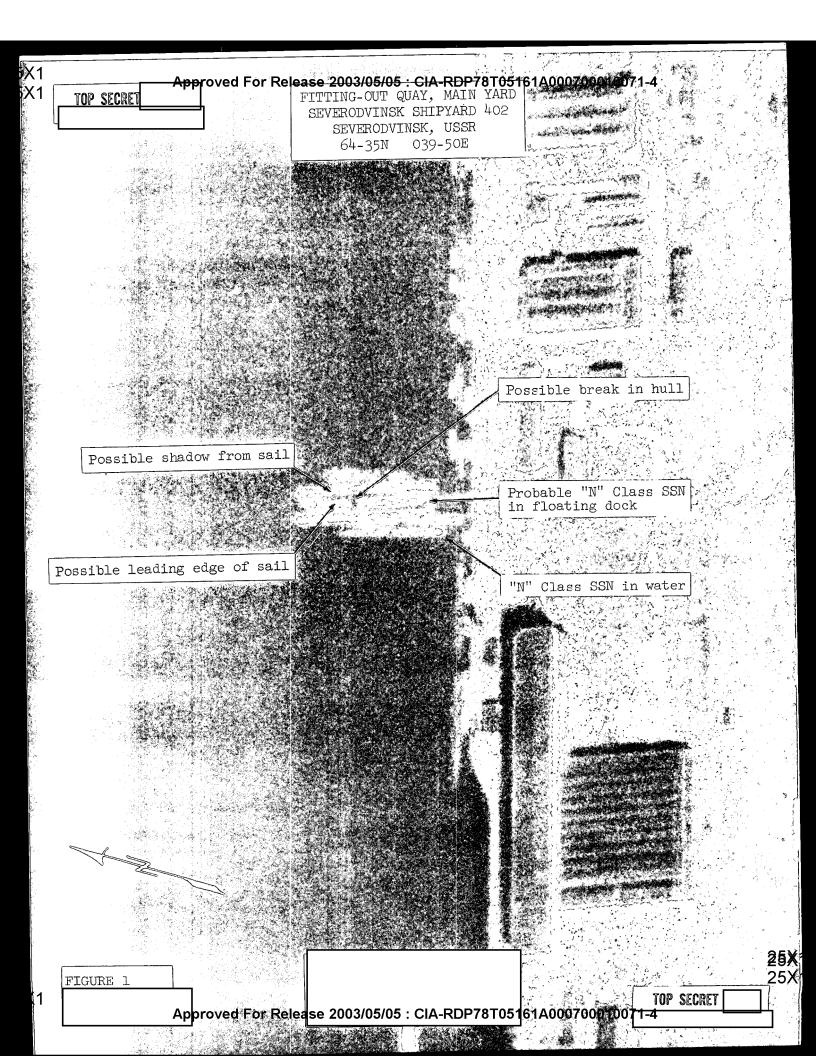
	CTA (DTD. / F
	CIA/PIR-670
	CIA IMAGERY ANALYSIS DIVISION
The dimension	derived for this dark imagery along the longitudinal
axis of the submari	ne was approximately The distance between
the bow of this sub	marine and its stern was approximately The
visible waterline l	ength of an "N" Class SSN in the water alongside thi
dock was approximat	ely Based on the tenuous evidence cited
above, it is felt t	hat the probable "N" Class SSN in the dock could
possibly be cut in	two, but this cannot definitely be substantiated by
any known method of	analysis.
One print and	one isodensity trace from each of the two frames
containing this imag	gery is included within this report in order to
illustrate all the	evidence bearing on this problem.
MENSURATION	
MIDITANO CRATTON	
All measuremen	ts were performed by the Technical Intelligence Divi
NPIC. Those dimens:	ions derived from photography are considered ac
to within plus or m	inus five feet or five percent, whichever is greater
neasurements contain	ned in Figure 2 were derived from smaller scale
graphy and are const	idered accurate within plus or minus ten feet or ten
cent, whichever is a	reater.

_ 14 _

25X

25)

25)



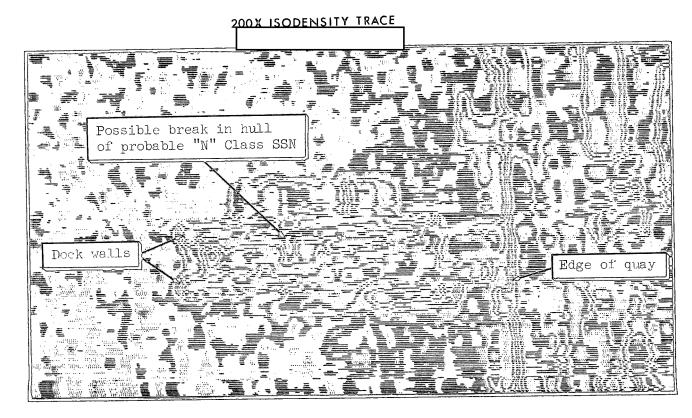
X110P SECRET APPROVE & FOR FITTING-OUT QUAY, SHIPYARD 402
SEVERODVINSK, USSR

X.1

Shadow !!!!!!!

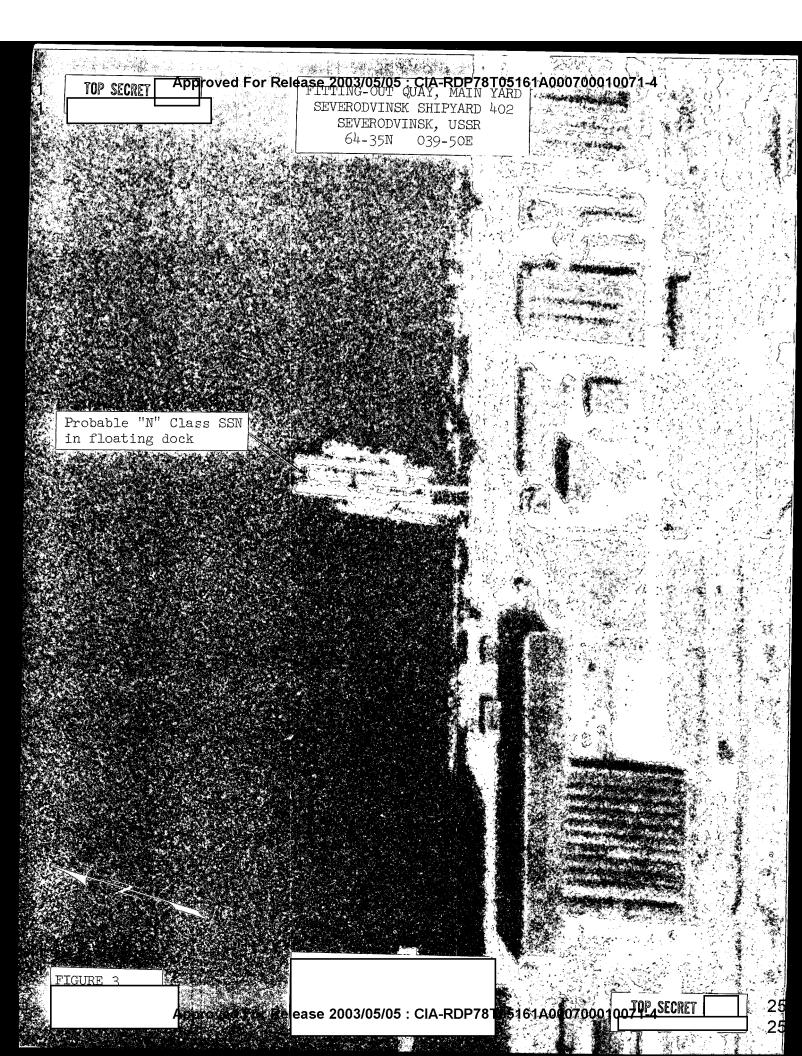
FIGURE 2

SKETCH
(DIMENSIONS APPROXIMATE)



25X 25X Approved For Release 2003/05/05 : CIA-RDP78T05161A000700010071-4T0P SECRET

25)



Approved For Release 2003/05/05 : CIA-RDP78T05161A000700010071-4

	CIA/PIR-67077
	CIA IMAGERY ANALYSIS DIVISION
	REFERENCES
DOCUMENTS	
CIA/PIR-67041, <u>Sev</u>	verodvinsk Naval Base and Shipyard 402, Severodvinsk
CIA/PIR-67041, Sev	verodvinsk Naval Base and Shipyard 402, Severodvinsk
USSR,	
USSR, REQUIREMENT	
USSR, REQUIREMENT C-SI5-82,858	
USSR, REQUIREMENT C-SI5-82,858 CIA/IAD PROJECT	
USSR, REQUIREMENT C-SI5-82,858	
USSR, REQUIREMENT C-SI5-82,858 CIA/IAD PROJECT	(TOP SECRET
USSR, REQUIREMENT C-SI5-82,858 CIA/IAD PROJECT	
USSR, REQUIREMENT C-SI5-82,858 CIA/IAD PROJECT	(TOP SECRET

- 5 **-**

Approved For Release 2003/05/05 : CIA-RDP78T05161A000700010071-4

TOP SECRET